Performance Data Sheet

AKA9442EXA

General Information

Model	AKA9442EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	4000	3630	3230	2760	2140	1310	211
	Watts	483	514	535	535	499	415	269
	Amps	7.74	7.50	7.40	7.33	7.15	6.74	5.99
	Lb/h	49.0	45.8	42.4	37.7	30.5	19.7	4.03
5	Btu/h	4710	4280	3870	3420	2850	2120	1150
	Watts	521	547	573	584	568	512	403
	Amps	7.93	7.71	7.66	7.66	7.59	7.31	6.71
	Lb/h	58.0	54.3	51.0	46.9	40.9	31.8	18.4
10	Btu/h	5440	4930	4470	4010	3470	2800	1930
	Watts	562	580	606	626	627	596	519
	Amps	8.07	7.87	7.86	7.93	7.95	7.80	7.35
	Lb/h	67.3	62.7	59.1	55.2	50.0	42.2	30.8
15	Btu/h	6270	5650	5120	4620	4090	3450	2650
	Watts	609	616	639	664	678	669	622
	Amps	8.23	8.04	8.07	8.20	8.31	8.27	7.96
	Lb/h	78.1	72.3	67.9	63.9	59.1	52.3	42.4
20	Btu/h	7300	6540	5910	5340	4780	4150	3390
	Watts	666	658	675	702	726	735	715
	Amps	8.48	8.29	8.36	8.54	8.73	8.80	8.62
	Lb/h	91.6	84.2	78.7	74.2	69.4	63.2	54.5
25	Btu/h	8610	7690	6930	6270	5650	4990	4250
	Watts	735	710	717	742	774	798	801
	Amps	8.89	8.70	8.79	9.03	9.29	9.46	9.41
	Lb/h	109	99.7	92.8	87.4	82.3	76.3	68.3
30	Btu/h	10300	9180	8260	7480	6770	6070	5310
	Watts	821	775	769	790	825	861	884
	Amps	9.53	9.34	9.44	9.72	10.1	10.3	10.4
	Lb/h	132	120	111	105	98.8	92.7	85.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.421038E+04	1.484237E+03	2.963105E+01	2.067135E+02
C2	4.681776E+02	7.159271E+01	1.893796E-01	6.377745E+00

C3	-2.847471E+02	-4.213433E+01	-6.430397E-01	-4.823124E+00
C4	3.088418E+00	5.028817E-01	-1.314927E-03	4.006098E-02
C5	-6.920913E+00	-1.455275E+00	-3.849768E-03	-1.009397E-01
C6	2.824469E+00	5.451439E-01	6.258902E-03	5.102957E-02
C7	1.186430E-01	4.622172E-03	9.332260E-05	1.670560E-03
C8	-5.651360E-02	-6.520253E-03	-1.332246E-05	-7.528168E-04
C9	3.616236E-02	8.203011E-03	2.588614E-05	5.568158E-04
C10	-1.074859E-02	-2.186864E-03	-2.051292E-05	-1.922827E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature